

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

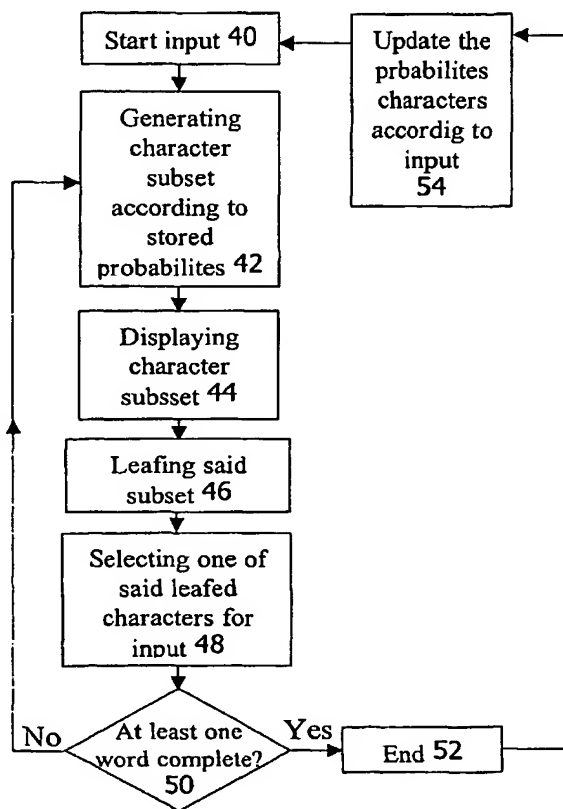
PCT

(10) International Publication Number
WO 2004/031932 A1

- (51) International Patent Classification⁷: **G06F 3/023**, H04M 1/274, G06F 17/22
- (21) International Application Number: PCT/IB2003/001775
- (22) International Filing Date: 7 May 2003 (07.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 021759 3 October 2002 (03.10.2002) FI
- (71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-03260 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **JOERESSEN**, Olaf [DE/DE]; Dechant-Fassbender-Strasse 17, 40670 Meerbusch (DE). **SCHARFF**, Christian [DE/DE]; Keplerstrasse 32, 42549 Velbert (DE).
- (74) Agent: **KURIG**, Thomas; Becker, Kurig, Straus, Bavariastrasse 7, 80336 München (DE).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: METHOD AND DEVICE FOR ENTERING WORDS IN A USER INTERFACE OF AN ELECTRONIC DEVICE



(57) Abstract: The present invention relates to character input methods for miniaturized electronic devices having a reduced user input interface, wherein said methods use the unequally distributed frequencies of words and numbers in a dictionary or a file to predict the most likely user input. More specifically the present invention pertains to a method for entering a word into a user interface of an electronic device, wherein the characters of said word can be selected from a character set stored in said electronic device. The method comprises generating and displaying a character subset. Said generating, of a character subset for browsing of a character set which is made up of at least one character, wherein said character subset includes characters from among which, according to an inference logic, the next character for said word is most probably selected. The displaying of said character subset on a display of said electronic device is for browsing and selecting the next character by the user. The method is characterized in that said inference logic is based on a database of words and at least one usage parameter related to each of said words. The present invention also relates to such electronic devices capable of performing the method.